



PATENT
Attorney Docket No. 054358-5005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Suk Won CHOI et al.

Application No.: 09/944,099

Filed: September 24, 2001

For: LIQUID CRYSTAL DISPLAY

Group Art Unit: 2871

Examiner: T. Duong

Commissioner for Patents
Washington, DC 20231

Sir:

AMENDMENT

In response to the Office Action dated December 20, 2002 (Paper No. 4), the period for response to which extends through March 20, 2003, please amend the above-identified application as follows:

IN THE CLAIMS:

Kindly amend claims 1-4 to read as follows.

1. (Amended) A liquid crystal display including liquid crystal pixel cells arranged at each intersection between a plurality of gate lines and a plurality of data lines, comprising:

- a thin film transistor associated with each pixel cell;
- a storage capacitor; and
- a smectic liquid crystal between an upper substrate and a lower substrate, wherein the smectic liquid crystal has spontaneous polarization in a range of $2\text{nC}/\text{cm}^2$ to $100\text{nC}/\text{cm}^2$ and a unit storage capacitance is in a range of $1\text{nF}/\text{cm}^2$ to $13\text{nF}/\text{cm}^2$ for optimizing transmittance depending on the spontaneous polarization of the smectic liquid crystal.

3. Extension of Time

The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136(a) apply.

☒ Applicants believe that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicants have inadvertently overlooked the need for a petition and fee for extension of time.

☐ Applicants petition for an extension of time, the fees for which are set out in 37 C.F.R. § 1.17(a), for the total number of months checked below:

<u>Total Months Requested</u>	<u>Fee for Extension</u>	<u>[Fee for Small Entity]</u>
<input type="checkbox"/> one month	\$ 110.00	\$ 55.00
<input type="checkbox"/> two months	\$ 410.00	\$ 205.00
<input type="checkbox"/> three months	\$ 930.00	\$ 465.00
<input type="checkbox"/> four months	\$ 1,450.00	\$ 725.00

Extension of time fee due with this request: \$_____.

If an additional extension of time is required, please consider this a Petition therefor.

☐ An extension for _____ months has already been secured and the fee paid therefor of \$_____ is deducted from the total fee due for the total months of extension now requested.

4. Constructive Petition

☒ EXCEPT for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§ 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account 50-0310. This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF TIME in accordance with 37 C.F.R. § 1.136(a)(3).

5. Fee Calculation (37 C.F.R. §1.16)


CLAIMS AS AMENDED						
	Claims Remaining After Amendment		Highest No. Previously Paid	Present Extra	at Rate of	Total Fees
Total Claims (37 C.F.R. §1.16(c))	4	minus	20	0	x \$18 each=	+ \$0.00
Independent Claims (37 C.F.R. §1.16(b))	1	minus	3	0	x \$84 each=	+ \$0.00
[] First presentation of Multiple dependent claim(s)					\$280.00	+ \$0.00
SUB-TOTAL =						\$0.00
Reduction by ½ for filing by a small entity						- \$0.00
TOTAL FEE =						\$0.00

6. Fee Payment

- ☒ No fee is to be paid at this time.
- ☐ Please charge Deposit Account No. 50-0310 the amount of \$_____ for the extension of time fee or fee for claims.
- ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, including fees due under 37 C.F.R. §§ 1.16 and 1.17, or credit any overpayment to Deposit Account 50-0310.

Respectfully submitted,
MORGAN, LEWIS & BOCKIUS LLP

Dated: February 19, 2003

By: 
 Victoria D. Hao
 Reg. No. 47,630

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